

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

*In re* Application of )  
 )  
Michael L. VAZQUEZ *et al.* ) Group Art Unit: TBA  
 )  
Serial No. TBA ) Examiner: TBA  
Divisional of U.S. Application )  
Serial No. 09/655,844 ) Atty. Docket 101765.00005 (2703/9/DIV)  
 )  
Filed: January 2, 2004 )

For: SULFONYLALKANOYLAMINO HYDROXYETHYLAMINO SULFONAMIDES USEFUL AS  
RETROVIRAL PROTEASE INHIBITORS

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313

Dear Sir:

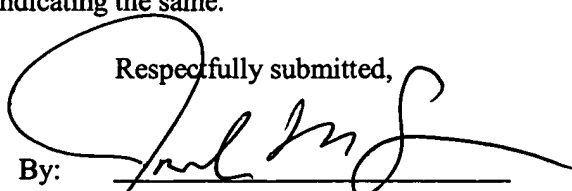
In accordance with 37 C.F.R. §§ 1.97 and 1.98 *et seq.*, enclosed is Form PTO 1449 listing documents for consideration and entry by the Examiner in the above-captioned patent application. With the exception of U.S. Patent No. 6,147,117, all cited art was previously disclosed in parent Application Serial No. 09/655,844, filed September 6, 2000, which is relied on for an earlier effective filing date under 35 U.S.C. § 120. Copies of the previously-submitted documents are not being submitted herewith, in accordance with 37 C.F.R. § 1.98(d)(1).

No fee is believed to be due for this submission. However, should a fee be required, the Commissioner is hereby authorized to debit our Deposit Account No. 19-0733, as necessary.

Entry and consideration of the cited information is respectfully requested together with a return of the PTO Form 1449 initialed by the Examiner indicating the same.

Respectfully submitted,

By:

  
Joseph M. Skerpon  
Registration No. 29,864

Date: January 2, 2004

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USPTO Form 1449 U.S. Department of Commerce  
Patent and Trademark Office  
INFORMATION DISCLOSURE  
CITATION

Attorney Docket No.  
101765.00005 (2703/9 Divisional)

Serial No.  
TBA

Applicant(s): Vazquez *et al.*

Filing Date:

Group: TBA

#### U.S. PATENT DOCUMENTS

Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	4,268,688	05/19/1981	Tinker et al.			
	4,990,669	02/05/1991	Reetz et al.			
	4,599,198	07/08/1986	Hoover			
	SIR H725	01/02/1990	Gordon			
	4,477,441	10/16/1984	Boger et al.			
	5,157,041	10/20/1992	Handa et al.			
	4,514,391	04/30/1985	Gordon et al.			
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Examiner Initial	Document No.	Date	Country	Class	Subclass	Translation	
						YES	NO
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	2,209,752	05/24/1989	UK				
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	0 346 847	12/20/1989	EPO				

USPTO Form 1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE CITATION				Attorney Docket No. 101765.00005(2703/9 Divisional)		Serial No. TBA	
				Applicant(s): Vazquez et al.			
				Filing Date:		Group: TBA	
		0 342 541	11/23/1989	EPO			
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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)							
		Roberts et al., <u>Science</u> , 248, 385 (1990)					
		Krohn et al., <u>J. Med. Chem.</u> 34, 3340 (1991)					
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		Reetz et al., <u>Tet. Lett.</u> , 30, 5425 (1989)					
		Sax, N.I., "Dangerous Properties of Industrial Materials", 6th Ed., Van Nostrand Reinhold Co., 1984, p. 443					
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		Reetz et al., <u>Phil. Trans. R. Soc. Lond.</u> , 326: 573-578 (1988)					
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		Erickson et al., <u>Science</u> , 249:527-533 (1980)					
		Drugs of the Future, 1991, 16(3), 210-212					
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		Applicant(s): Vazquez <i>et al.</i>	
		Filing Date:	Group: TBA
		Pept. Struct. Funct. Proc. AM. Prept. Sym. 8th ed. by V.J. Hunby and D.H. Rich, "Design of Protease Inhibitors" (Rich, Saluturo & Holladay pp. 511-520 (1983))	
		McQuade et al., "A Synthesis HIV-1 Protease Inhibitor with Antiviral Activity Arrests HIV-Like Particle Maturation", <i>Science</i> , 247, 454 (1990)	
		Rosenberg et al., <i>J. Med. Chem.</i> , 30, 1224-1228 (1987)	
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		Evans et al., <i>J. Org. Chem.</i> , vol. 50, no. 23, 4615-24 (1985)	
		Michnick et al., <i>Synlett</i> , 9:631-2 (1991)	
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		Luly et al., <i>J. Org. Chem.</i> , 53 (1988):6109-6112	
		Harada et al., <i>Chem Pharm. Bull.</i> , 37, (9):2570-2572 (1989)	
EXAMINER		DATE CONSIDERED	
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.</p> <p>**Copies of references not provided at the time of this submission.</p>			

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Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(use as many sheets as necessary)*

Sheet	4	of	5
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**Complete if Known**

Application Number	TBA
Filing Date	
First Named Inventor	Michael L. Vazquez
Group Art Unit	TBA
Examiner Name	TBA
Attorney Docket Number	101765.00005 (2703/9 Divisional)

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

Date Considered

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 5 of 5

**Complete if Known**

Application Number	TBA
Filing Date	
First Named Inventor	Michael L. Vazquez
Group Art Unit	TBA
Examiner Name	TBA
Attorney Docket Number	101765.00005 (2703/9 Divisional)

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Erickson et al., "Design Activity, and 2.8A Crystal Structure of a C <sub>2</sub> Symmetric Inhibitor Complexed to HIV-1 Protease," <u>Science</u> , 527, (1990)	
		S. J.. Fittkau, <u>Prakt. Chem.</u> , 315, 1037 (1973)	
		Pawles et al., "Rapid and automated tetrazolium-based colormetric assay for the detection of anti-HIV compounds," <u>J. Virol. Methods</u> , 20, 309-321 (1988)	

Examiner  
SignatureDate  
Considered

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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